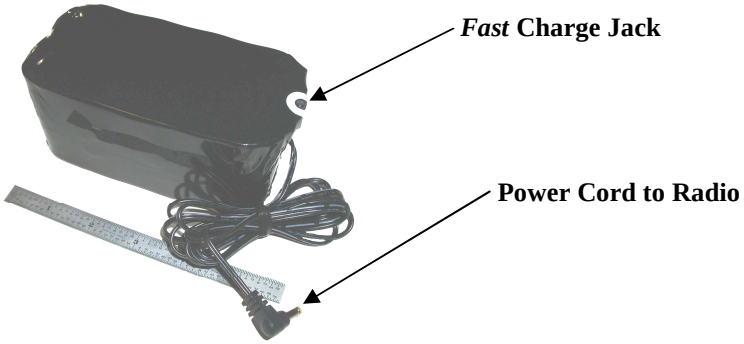
W4RT Electronics™
A Division of PanTechne Corporation
www.w4rt.com

MEGA-817™
For the FT-817& FT-817ND



The MEGA-817 is a state-of-the-art 10,000 mAh NiMH battery pack that offers a compact and lightweight means of powering the FT-817 or FT-817 ND for extended periods. The MEGA-817 is ideal for long backpacking trips, Field Day, etc. This battery pack manufactured by W4RT Electronics has the following specifications.

- **Capacity:** 10,000 mAh
- **Nominal Voltage:** 9.6 VDC
- **Technology:** 8 NiMH D-cells
- **Size:** 2.3" H by 2.6" W by 5.2" L
- **Weight:** 3-1/4 pounds
- **Safety Features:** Both positive and negative battery leads are fused compatible with the FT-817(ND), thermal protection fuse, and all fuses are self-resetting
- **Charging Port:** Built-in jack that interfaces with the W4RT One *FAST* Charger (OFC-817). Charging time is approximately 10 hours.

The MEGA-817 has a power cable included that plugs into the external power jack on the FT-817(ND). You can run at full power (5 W) by pressing the power selection switch until the icon has 3 *blinking* bars showing. There is no need to remove the internal OPP-817+ battery pack when using the MEGA-817. If you have both of these power sources for your FT-817(ND), you have about 12,500 mAh of capacity available! How long you can operate clearly is dependent upon how much you transmit and at what power, but if you just operate in the receive mode, you can listen for around 32 hours!

So how does the MEGA-817 compare to the SLA (gel cell) batteries? Basically, the SLA batteries have about 1350 mAH/pound and 135 mAh/cubic inch while the MEGA-817 has about 3100 mAh/pound and 325 mAh/cubic inch. In other words, the MEGA-817 packs the same charge in about 43% the volume and weight required of SLAs! This compactness can mean a lot when you are traveling or packpacking. Also, SLAs don't have over-current or over-temperature protection like the MEGA-817.

READ THE FOLLOWING PAGE

Please READ the following BEFORE USING your MEGA-817.

1. **WARNING: This battery has a LOT of energy stored within it. Take care not to damage it physically or electrically. Although each lead from the battery is fused at about 3 A, remain careful.**

2. If you have an internal battery pack installed in your FT-817(ND), you DO NOT have to remove it to use the MEGA-817.

3. Before connecting the MEGA-817 to your FT-817(ND), turn the radio OFF.

4. Plug the power cable from the MEGA-817 (see photo above) into the external power jack on the rear panel of your radio.

5. Turn your radio ON. It will operate in its normal battery mode, e.g., to run 5 W, the power icon will have three bars blinking.

6. **TIP:** If you are using an internal battery, it is best to allow the radio to deplete its charge before using the MEGA-817.

7. **CHARGING TIPS:**
   - **<u>Do not attempt to recharge a fully charged battery.</u>**
   - **Do not attempt to recharge a partially discharged battery <u>unless the voltage is less than</u> about 9.2 VDC (see the FT-817's voltage display as described in your FT-817 User Manual).**
   - **USE ONLY CHARGERS DESIGNED FOR NiMH BATTERIES.**
   - **Use only the W4RT Fast Charge Cable (see photo above) to connect the MEGA-817 and the charger.**
   - **Always let the MEGA-817 rest 30-60 minutes, after discharge or last use, before recharging.**
   - **If you use the W4RT OFC-817 as the charger, it will take about 10-1/2 to 11 hours to fully charge the MEGA-817. This charger outputs 1 A and has a 180 minute internal timer. This means that you will need to reset (unplug and plug the OFC-817 from the wall socket) the OFC-817 after each of the first three (3) charges sessions. This provides 9 hours of charging. The final charging session should cutoff automatically in about 1-1/2 to 2 hours. Note, minimize the time between each charging session (like less than a minute) if possible and for best results.**
   - **If you use a higher charge rate charge, less time is needed. W4RT recommends that the maximum charge rate not exceed about 5 A.**
   - **AFTER COMPLETING THE CHARGE, LET THE MEGA-817 REST FOR 30-60 MINUTES IF POSSIBLE SO THAT CHARGE CAPACITY AND LIFETIME ARE RETAINED.**

WARRANTY: MEGA-817 is warranted for a period of 12 months from the date of purchase to be free of electrical defects in materials and workmanship; however, NiMH battery cells are warranted for a period of three months. If the MEGA-817 is determined to be defective, the defective item(s) will be repaired or replaced, at the sole option of W4RT Electronics, provided that the purchaser returns said item(s), postage prepaid, with proof of purchase to W4RT Electronics, ATTN: Technical Support, 3077-K Leeman Ferry Rd, Huntsville, AL 35801. Include a description of the problem, daytime phone number, email address, and return mailing information. Any modification to the MEGA-817 or inappropriate abuse by purchaser voids the warranty. The warranty applies only to the original purchaser and is not transferable. Any damage to theMEGA-817 due to the installation method or technique used by purchaser is the sole responsibility of purchaser and W4RT Electronics has no liability whatsoever. Rev. 18 March 2007.

Copyright © 2007 by PanTechne Corp. All rights reserved. W4RT Electronics, W4RT, and MEGA-817 are trademarks of PanTechne Corp.